ABSTRACT

An energy-conserving motherboard or information-processing apparatus comprising full operating power-distributing circuitry having power connection with a main microprocessor, energy-conserving power-distributing circuitry, keep-alive power-distributing circuitry having power connection with keep-alive memory circuitry, and a control device for selectively providing multiple operating functions and a standby function so as to conserve energy consumption to the best extent as being placed into a shutdown state. Distinct exemplary advantages include: (1) greatly extending the battery life of a notebook or laptop computer, because of eliminating unnecessary energy waste during a non-functional operation, (2) eliminating any annoying noise as a result of substantial energy conservation that in turn eliminates the need of cooling, and (3) affording an independent operating function to allow a user to instantly, energy-conservatively, and noise-freely play an audio disc in a CD/DVD drive or dubbing digital information between optical discs even without tediously booting up a computer system.